

2 adjacent each chamber.

1 88. (new) The method of claim 86 wherein each burner is mounted within the  
2 vessel.

1 89. (new) The method of claim 86 wherein the cyclone stream is recycled back  
2 to the centrifuge apparatus.

### REMARKS

Claims 32 - 61 have been rejected under § 102. These claims have been cancelled.

Submitted herewith are new claims which Applicants believe define patentable subject matter.

### § 102 Rejection

Claims 32 - 61 have been rejected under § 102 based on either Nye (U.S. 6,120,650) or Wood (U.S. 6,106,733). These claims have been cancelled.

The new claims presented here correspond roughly to certain of the now cancelled claims as follows:

New Claim	Old Claim
62	32
63	33
64	34
65	-
66	-
67	39
68	40
69	41
70	42
71	43
72	44
73	47
74	48
75	49

76	50
77	51
78	52
79	53
80	54
81	55
82	56
83	57
84	-
85	58
86	59
87	60
88	61
89	-

New independent claims 62, 83 and 86 recite the limitation that:

(a) the dual component separation system is a mechanical separation system.

New claims 65 (dependent), 83 (independent) and 86 (independent) recite the limitations:

(b) the dual component mechanical separation system includes centrifuge apparatus

(c) the dual component mechanical separation system includes cyclone apparatus.

New dependent claims 66, 84 and 89 recite the limitation that

(d) an output of the cyclone apparatus is recycled back to the centrifuge apparatus.

Support in the Specification for the new limitations discussed here is, for example, at Page 3, lines 24 - 32 and Page 18, lines 27 - 30.

Neither Nye nor Wood has any teaching or suggestion of a dual component mechanical separation system for separating solids. Neither references has any teaching or suggestion of limitations (b), (c), or (d) listed above.

Applicants respectfully submit that the new claims discussed above are not

anticipated by Nye or by Wood and that these claims define subject matter patentable over either reference.

### Conclusion

Applicants appreciate the careful and detailed Office Action. This is intended to be a complete Response to the Office Action. Early and favorable reconsideration is respectfully requested.

Respectfully submitted,

Date: \_\_\_\_\_

12 July 2005

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